

SWIR Emitter

Product No: MTSM4410SMR2

Peak Emission Wavelength: 1040nm

The MTSM4410SMR2 is a 1040nm SWIR Emitter in a Seam Welded Surface Mount package for applications requiring high output power and efficiency.

FEATURES

- > 5mm x 5mm Seam Welded Surface Mount Package
- > High Reliability
- > High Output Power
- > Hermetically Sealed Package

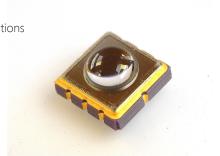
Storage Temperature Range

APPLICATIONS

- > Bio Medical Applications
- > Optical Sensors
- > Aerospace

-30 ~ +100

> Industrial Controls



Absolute Maximum Ratings (Ta=25°C)				
ITEMS	SYMBOL	RATINGS	UNIT	lead-free ROHS
Forward Current (DC)	IF	100	mA	
Forward Current (Pulse)*1	IFP	1	A	
Reverse Voltage	VR	5	V	
Power Dissipation	PD	120	mW	
Operating Temperature Range	Topr	-20 ~ +85	°C	

*1: Tw=10µsec, T=10msec

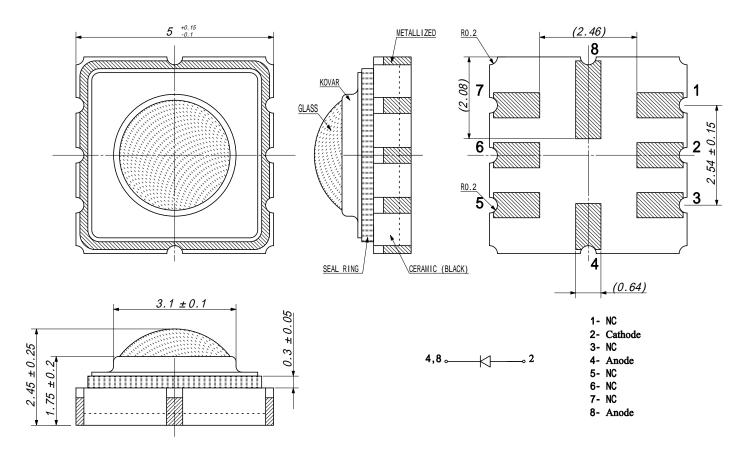
Electrical &	Optical	Characteristics	(Ta =	25°C)
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Tstg

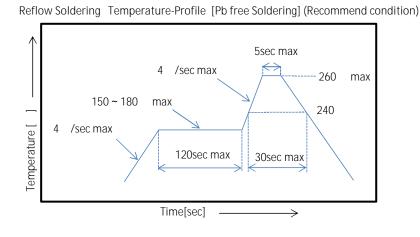
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=50mA		1.20		V
Power Output	PO	IF=50mA		13		mW
Reverse Current	IR	VR=5V			10	μΑ
Peak Emission Wavelength	λρ	IF=50mA		1030		nm
Spectral Line Half Width	Δλ	IF=50mA		30		nm
Half Intensity Beam Angle	Θ	IF=50mA		40		deg

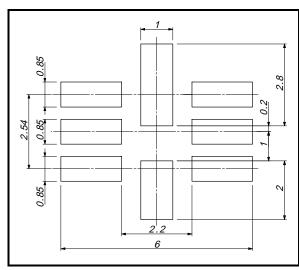


Package Dimensions



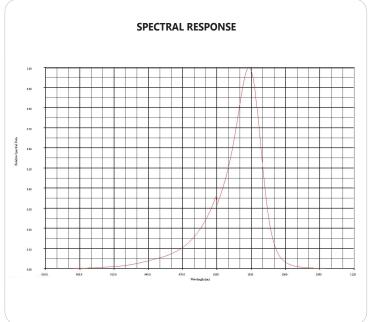
Recommended Soldering Pattern [mm]

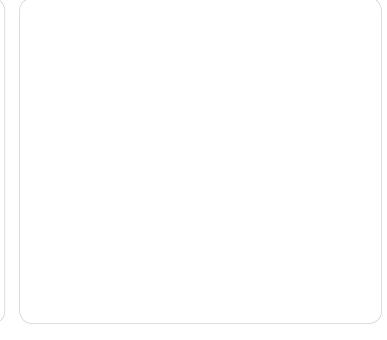


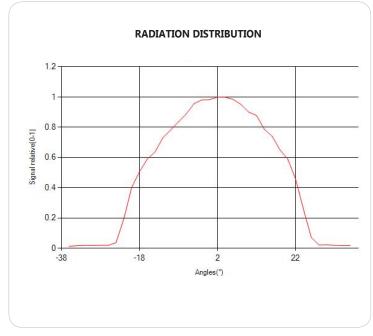


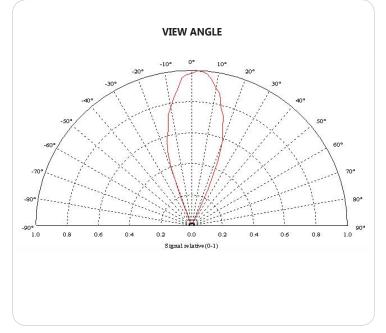
2023-11-06











The information contained herein is subject to change without notice.